

August 19, 2011



U.S. Department  
of Transportation

East Building, PHH-30  
1200 New Jersey Avenue S.E.  
Washington, D.C. 20590

**Pipeline and Hazardous  
Materials Safety Administration**

DOT-SP 15206  
(SECOND REVISION)

**EXPIRATION DATE: March 31, 2013**

(FOR RENEWAL, SEE 49 CFR § 107.109)

1. GRANTEE: Maxwell Technologies  
San Diego, CA
2. PURPOSE AND LIMITATION:
  - a. This special permit authorizes the transportation in commerce of electric double layer capacitors with an energy storable capacity of not more than 10Wh, and the capacitors installed in equipment, in packagings described in the provisions of this special permit, without being subject to the Hazardous Materials Regulations (HMR) provided terms and conditions in this special permit are complied with. This special permit provides no relief from the HMR other than as specifically stated herein. The most recent revision supersedes all previous revisions.
  - b. The safety analyses performed in the development of this special permit only considered the hazards and risks associated with the transportation in commerce.
  - c. No party status will be granted to this special permit.
3. REGULATORY SYSTEM AFFECTED: 49 CFR Parts 106, 107 and 171-180.
4. REGULATIONS FROM WHICH EXEMPTED: 49 CFR § 172.101(c)(1)
5. BASIS: This special permit is based on the application of Maxwell Technologies dated December 21, 2010 submitted in accordance with § 107.105 and the public proceeding thereon, and additional information dated June 20, 2011 and July 21, 2011.

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<b>Hazardous Materials Description</b>			
<b>Proper Shipping Name</b>	<b>Hazard Class/ Division</b>	<b>Identification Number</b>	<b>Packing Group</b>
Capacitor, electric double layer (with an energy storage capacity greater than 0.3 Wh) *	9	UN3499	N/A

\* Limited to capacitor containing acetonitrile electrolyte.

7. SAFETY CONTROL MEASURES:a. PACKAGING -

- (1) Capacitors must be packed in strong outer packaging to meet the performance level described in Packing Instruction P003 in the 16<sup>th</sup> Revised Edition of the UN Model Regulations, and must be protected against short-circuit or be fitted with a metal strap connecting the terminals.
- (2) Each capacitor must be transported in an uncharged state.
- (3) Capacitors must include a robust casing to withstand a 1.2 m drop test unpackaged without loss of contents.
- (4) Capacitors installed in equipment must be protected against short-circuiting or transported uncharged.
- (5) Capacitors installed in equipment must be packaged in a strong outer packaging constructed of suitable material of adequate strength, or may be transported unpackaged or on pallets when the capacitors are safely protected by the equipment.
- (6) The net weight of capacitors in a completed package or installed in equipment may be no more than 35 kg for transportation by cargo or

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passenger aircraft.

b. OPERATIONAL CONTROLS -

- (1) This special permit applies to capacitors, and capacitors installed in equipment or apparatus, with an energy storage capacity not more than 10 Wh until this proper shipping name is formally adopted in the UN Model Regulations or the HMR whichever is sooner.
- (2) Capacitors shall withstand a 95 kPa pressure differential, provide pressure relief venting, and be equipped with a means of containing any liquid in the event of liquid release upon venting.
- (3) Capacitors shall be marked with the energy storage capacity in Wh.
- (4) Each capacitor may contain no more than 6 mL of excess electrolyte.
- (5) Capacitors in checked or carry-on luggage on passenger aircraft are prohibited.

8. SPECIAL PROVISIONS:

a. A person who is not a holder of this special permit who receives a package covered by this special permit may reoffer it for transportation provided no modification or change is made to the packaging and it is reoffered for transportation in conformance with this special permit and the HMR.

b. A current copy of this special permit must be maintained at each facility where the package is offered or reoffered for transportation.

9. MODES OF TRANSPORTATION AUTHORIZED: Motor vehicle, cargo only aircraft, passenger aircraft, cargo vessel, and rail freight.

10. MODAL REQUIREMENTS: The outside of the package must have a label providing contact address and phone number where the special permit and additional guidance on transport may be obtained.

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11. COMPLIANCE: Failure by a person to comply with any of the following may result in suspension or revocation of this special permit and penalties prescribed by the Federal hazardous materials transportation law, 49 U.S.C. 5101 et seq:

- o All terms and conditions prescribed in this special permit and the Hazardous Materials Regulations, 49 CFR Parts 171-180.
- o Persons operating under the terms of this special permit must comply with the security plan requirement in Subpart I of Part 172 of the HMR, when applicable.
- o Registration required by § 107.601 et seq., when applicable.

Each "Hazmat employee", as defined in § 171.8, who performs a function subject to this special permit must receive training on the requirements and conditions of this special permit in addition to the training required by §§ 172.700 through 172.704.

No person may use or apply this special permit, including display of its number, when this special permit has expired or is otherwise no longer in effect.

Under Title VII of the Safe, Accountable, Flexible, Efficient Transportation Equity Act: A Legacy for Users (SAFETEA-LU)—"The Hazardous Materials Safety and Security Reauthorization Act of 2005" (Pub. L. 109-59), 119 Stat. 1144 (August 10, 2005), amended the Federal hazardous materials transportation law by changing the term "exemption" to "special permit" and authorizes a special permit to be granted up to two years for new special permits and up to four years for renewals.

12. REPORTING REQUIREMENTS: Shipments or operations conducted under this special permit are subject to the Hazardous Materials Incident Reporting requirements specified in 49 CFR §§ 171.15 Immediate notice of certain hazardous materials incidents, and 171.16 Detailed hazardous materials

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incident reports. In addition, the grantee(s) of this special permit must notify the Associate Administrator for Hazardous Materials Safety, in writing, of any incident involving a package, shipment or operation conducted under terms of this special permit.

Issued in Washington, D.C.:



for Dr. Magdy El-Sibaie

Associate Administrator for Hazardous Materials Safety

Address all inquiries to: Associate Administrator for Hazardous Materials Safety, Pipeline and Hazardous Material Safety Administration, U.S. Department of Transportation, East Building PHH-30, 1200 New Jersey Avenue, Southeast, Washington, D.C. 20590.

Copies of this special permit may be obtained by accessing the Hazardous Materials Safety Homepage at [http://hazmat.dot.gov/sp\\_app/special\\_permits/spec\\_perm\\_index.htm](http://hazmat.dot.gov/sp_app/special_permits/spec_perm_index.htm). Photo reproductions and legible reductions of this special permit are permitted. Any alteration of this special permit is prohibited.

PO: LAVALLE